ApaI EcoO

APPROPRIES J.C. FIG. No. S. Branciscon 530 326

| (r j | GAGGTATAGGAGCTCTTTTAGCAAACCAGGAGTCCGAAGATCTAAGGAGAGCTGGGGGTTTGACTCC Saci 85 95 105 115 125 135 145 Saci Pfini | 20 TCTTCGATTTTA 95 CCCAAGACCTGG PflMI T+hllT | 30 TAGCAAACCA 105 GGTCTTGACT | 40 GGAGTCCGAA 115 CACGAGTTAC | 50 AGATCTAAGGA Bglii 125 GACTCCACTCA | 60 GAGCTGGGGG 135 GAGGCTGACT | 70 TTTGACTCC 145 GTCTCCAGG |
|-----------------|---|---|---------------------------------------|---------------------------------------|--|---------------------------------------|-------------------------------------|
| | 160 | 170 | 180 | 190 | 200 | 210 | 220 |
| | GICTACACCTCTAAGGGCGACACTGGGCTCAAGCAGACTGCCGTTTTCTATATGGGATGAGCCTTCACAGGGCAG | GCGACACTGG | GCTCAAGCAG | ACTGCCGTTI | TCTATATGGG | ATGAGCCTTC | ACAGGGCAG |
| | 235 | 245 | 255 | 265 | 275 | 285 | 295 |
| | CCAGTTGGGATGGGTTGAGGTTTGGCTGTAGACATCAGAAACCCAAGTCAAATTGCGGTTCAACCAGTAGAAAATT | GAGGTTTGGC | TGTAGACATC | AGAAACCCAA | GTCAAATGCG | CTTCAACCAG | TAGAAMATT |
| | 310 | 320 | 330 | 340 | 350 | 360 | 370 |
| | CACCAGCCCGCAGAGCTAAGGTTGGGTGGACATTAGGGTTGGTT | TAAGGTTGGG | TGGACATTAG | GGTTGGTTGA | TCCAGGAGCT | CAACAGTGTC | CTCTGAGCC |
| | | | | | Sact | | |
| | 385 | 395 | 405 | 415 | 425 | 435 | 445 |
| | CCAGCTCCTTCTGCCCCACCCACCATCTTCAGTGCTGCTTCCTCTCAAGGCCACAGCTGTAGTTGGCCAGGGGG | CACCCCACCA | TCTTCAGTGC | TGCTTCCTCT | CAAGGCCACA | GCTGTAGTTG | GCCAGGGGG |
| | | | | | PV | PvuII BalI | 11 |

BEST AVAILABLE COPY

ATGCAAGAGCCCTGCGTGGGAGTGAGCTTGGTGTTTGGTCAATCAGTTGTCAGAGCACACCGGGCCCTGTCAGCA

TGACATTGGAACCAAGGCTTGAGCAGACACAACAAGATTGCAGGGGGGGCATTGCAGGTGGAGGAAACGGCAC

TCCTGGACAGGATGTGCACTGATGAGCTTAGCTTTGGGGATCTAATAGTGACTTTACAAAGCCTCTTTGAGAAGG

099

650

640

630

735

725

715

Ç.

705

695

685

EspI

ApaLI

BSpMI-

800

790

780

770

760

GGGAACTTTTCCAGAAGTCTCTATGTCTTTAGTTTGTGTTGGGTCACTTGCCCTTCCTGAACCACTTCCTGAC

565

552

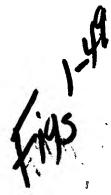
545

535

460

NcoI 575

BglI



qu

BspMI 1795

1785

1775

| | 3. 1A-2 835 845 865 875 885 895 GCACAGCCTGGGCAGCTCTGAGTATGACAGAGGCCCTGGGAAGTTGTAGGTGGAGGAAGACAGGTCATGA 970 970 | ATCCCTCTGTTGTGGGGTGGAAGGATT 995 1005 1015 CAATGTTTACAAGTGCTCAGGCCCTGACCC | 1090 GGGAGTGT 1165 GGTTGCTT | CTGCAGAGGATGAGTGTTGGGGCCTCACGAGTTGAGGTTGTTCATAAGCAGATCTTTTGAGCAGGCGCCTCACGAGTTGTTCATAAGCAGATCTTTTGAGCAGGCGCCTCTTGAGCGCCCTTTGAGCGCCCTTTGAGCGCCCTTTTGAGCAGGCCCTTTTTTTT | 1360 1370 1380 1390 1400 1410 1420 CACGTGTATAAAAGAAACCAGTGTCCGCAGAAGGTTCCAGAAGTATTATGGGATAAGACTACATGAGAGGAAA 1435 1445 1455 1465 1475 1485 1495 TGGGGCATTGGCACCTCCCTTAGTAGGCCTTTGCTGGGGGTAGAAATGAGTTTAAGGCAGGTTAGACCCTCGA | ACTGGCTTTTGAATCGGGAAATTTACCCCCCAGCCGTTCTGTGCTTCATTGCTGTTCACTCAC |
|---|---|--|---|--|---|---|
| AFFROTTO O. C. FIG. LUNG OY CLASS SUBCLASS GGT. TOTAN SZO 326 | 875 885 895 AGTTGTAGGTGGAGGAAAGACAGGTCATGA 950 960 970 | GCAGTGTGTGAGAGAGACAAGACAGACAGACAGACAGACA | 1100 1110 1120 TTCTTCTGAAAGGTCATCAGGTTTTGACTC 1175 1185 1195 FCCCAGGCCCTGTCCCGCATCCTTTGCCC Eco0 | 1250 1260 1270 CATAAGCAGATCTCTTTGAGCAGGGCGCCT Bglil Nari Ps 1325 1335 1345 AATCCAGGCAGATGTAGCATTTAAACAACA | 1400 1410 1420 ATTATGGGATAAGACTACATGAGAGGAÄ 1475 1485 1495 AATGAGTTTTAAGGCAGGTTAGACCCTCGA BSPMI- | 1550 1560 1570 CATTGCTGTTCACATCACTGCCTAAGATG 1625 1635 1645 SCTTCTTCACTTCTTGTCAATGCAGAA 1700 1710 1720 ATGTCAGCTTCCGAGACCTGGGCTGGCAGG |

8861S3\\\[\)

ApaI EcoO

1765

1745

off

| | | • | | | | |
|-------------------------|--|--|---|--|---|--|
| APPROTO O. C. FIG. Land | 1850 1860 1870 CCTCGCTAGGAAGGGTACTTGGCTAAGGA 1925 1935 1945 .GGGAGCCAGCATGGGTGATGCCATTATGA 2000 2010 2020 TGTTTAAGGTGAACTGCCAGTGTGACCA | 2075 2085 2095 GTGCCGCGTTCTGTCCAGAAGACACAGC N 2150 2160 2170 | 2225 2235 2245 ACCGCAGCTTTGACGCCGTCTTCCCACT | 2300 2310 2320 CTTTCCATTCTTTTGGGACCATGAGAGG BStXI 2385 2395 GGTCTGAGGCTTTCACCTTGGTCGTGAG | 2450 2460 2470 GCTTCTGCATGGTTTCCCACACTCTTT 2525 2535 2545 FACTGTGAGGGGAGTGTGCCTTCCCTC 2600 2610 2620 GTGGGTGTCACGCCATCTTGGGGTGTGG | BS 2675 2685 2695 AAGCTGGGGCCTGAGTAGATGTCAGCCC EcoO |
| | 1820 1830 1840 GCCAGTTAAGACTCCAGTATCAAGTGG 1895 1905 1915 ROX. 1000 BASES) | CCTAGAGGTAGAGCTGATGCCTCACACCGGAGCTCCTTCCT | col 2185 2195 2205 2215 2225 2235 2245 GTCTTGCTCTGTCACCCAGGCTGGGTGCAGTGTGTGTAGCTCACCGCAGCTTTGACGCCGTCTTCCCACT | 2260 2270 2280 2290 2300 2310 2320 CAGTCTACTAGACTATAGACTATAGAGTGGTCCTTCTTTCCATTCTTTTGGGACCATGAGAGG HindIII BstXI 2345 2355 2375 2385 2395 CCACCCATGTTTCCTGCCCTGCTGCTGCTCAGAGGCATGGTCTGAGGCTTTCACCTTGGTCGTGAG | 2410 2420 2430 2440 2450 2460 2460 2470 CCTTCGTGGTGGTTTCTTTCAGCATGGGGTTGGATGCTGTGCTTCTGCATGGTTTCCCACACTCTTT | BS 2635 2645 2665 2675 2695 TCACCTGGGCCGGGCCACCAGATCCTGCTGCCTCCAAGCTGGGGCCTGAGTAGATGTCAGCCC tell Bgll |
| | 1810 GTCTTGTTTCTCATCTCT 1885 TACAGG(APP) 1960 GTTATTAGCCTCTCTGGC Bgll Bsj | CCTAGTGGGGTAGAGC aIII MI 2110 CATGGATGTCCATTT | col 2185 GTCTTGCTCTGTCACC | 2260 CAGTCTACTAAGCTTGGA(HindIII 2335 CCACCCATGTTTCCTGCC | 24.10 CCTTCGTGGTGGTTTC 24.85 CTCCTCCTCAGGACTG MSt.I 2560 TGAACTCCTACATGAA | 2635 TCACCTGGGCCGGGCA tEII B91I |



FIG.

| 926 058 MARCHEST 256 | 2770 | 2720 2730 2740 2750 2760 2770 | 2750 | 2740 | 2730 | 2720 | 1A-4 ₂₇₁₀ | FIG. |
|----------------------|------|---|------|------|------|------|----------------------|------|
| | i a | Plane or employment or a record of the foreign of | | | | | | |

886123\m

| 1A-4 ₂₇₁₀ | 2720 | 2730 | 2740 | 2750 | 2760 | 2770 |
|--|----------------------|-------------|--|--------------------|---------------------|-----------------|
| ATTGCCATGTCATGACTTTTGGGGCCCCTTGCGCCGTTAAAAAAAA | CTTTTGGGGGCC Apal | ccrrececc | STTAAAAAAAA | ATCAAAAATT | GTACTTTATG/ | ACTGGTTT |
| 2785 | 2795 | 2805 | 2815 | 2825 | 2835 | 2845 |
| GGTATAAAGAGGAGTATAATCTTCGACCCTGGAGTTCATTTATTT | ATAATCTTCGAC | CCTGGAGTTC | CATTTATTTCI | CCTAATTTTT | AAAGTAACTA | AAAGTTGT |
| | | | 1 | DraI | | |
| 2860 2910 2860 2860 2870 2880 2900 2900 2910 2970 × 2910 × 2910 | 2870 | 2880 | 2890 | 2900 デビアグチック・ファ | 2910 CACTGGGCCCC | 2920 TGCTTCA |
| AIGGCICCIIIGAG | GATGCTIGIAGI | A11616616 | 2010011400 | | ApaI | |
| | | | | | EC00 | |
| 2935 | 2945 | 2955 | 2965 | 2975 | 2985 | 2995 |
| TTTTCCAGTAGAGGAAACAGGTAAACAGATGAGAAATTTCAGTGAGGGGCACAGTGATCAGAAGCGGGCCAGCAG | AACAGGTAAACA | GATGAGAAAT | TTCAGTGAGG | GGCACAGTGA | TCAGAAGCGG | SCCAGCAG |
| 3010 | 3020 | 3030 | 3040 | 3050 | 3060 | 3070 |
| GATAATGGGATGGAGAGATGAGTGGGGACCCATGGGCCATTTCAAGTTAAATTTCAGTCGGGTCACCAGGAAGAT | AGATGAGTGGG | SACCCATGGGC | CATTTCAAGT | TAAATTTCAG | TCGGGTCACC | AGGAAGAT |
| | ECC | Ecoo Ncol | | | BStEII | |
| 3085 | 3095 | 3105 | 3115 | 3125 | 3135 | 3145 |
| TCCATGTGATAATGAGATTAACGTGCCCAGTCACGGCGACACTCAGTAGGTGTTATTCCTGCTCTGCCAACAGCA | GATTAACGTGCC | CAGTCACGG | GACACTCAGT | AGGIGITATI | CCIGCICIGC | CAACAGCA |
| 3160 | 3170 | 3180 | 3190 | 3200 | 3210 | 3220 |
| ACCATAGTTGATAAGAGCTGTTAGGGATTTTTGTCCTTTTGCTTAGAATCCAAGGTTCAAGGACCTTGGTTATGTA | AGCTGTTAGGGA | TTTTGTCCTI | TTGCTTAGAA | TCCAAGGTTC | AAGGACCTTG | STTATGTA |
| | | | | | Eco0 | |
| 3235 | 3245 | 3255 | 3265 | 3275 | 3285 | 3295 |
| GCTCCCTGTCATGAACA | CATCATCTGAGC | CTTTCCTGCC | TCATCTGAGCCTTTCCTGCCTACTGATCATCCACCCTGCCTTGAATGCTTCTAGTGAC | CCACCCTGCC | TTGAATGCTT (| CTAGTGAC |
| | | | | | BsmI+ | |
| 3310 | 3320 | 3330 | 3340 | 3350 | 3360 | 33.70 |
| AGAGAGCICACTACCAGGACTACTCCCTCCTTTCATTTAGTAATCTGCCTCCTTCTTTTCTTGTCTGTC | AGGACTACTCCC | TCCTTTCATI | TAGTAATCTG | CCTCCTTCTT | rrcrrercc | rerecter |

Saci

CITIGITITITITIAAGIGITITICCAAAGCCCTTGCTCCCCTCCTCAATTGAAACTTCAAAGCCCTCAT

GTGTTAAGTCCTGGAGAAAATCTCATCTATCCCTTTTCATTTGATTCTGCTCTTTGAGGGCAGGGGTTTTTGTTT

TGGGATTGAAGGTCCTTAGGCTGGAAACAGAAGAGTCCTCCCCAACCTGTTCCCTGGCCTGGATGTGCTGTGCTG

EcoOMstII

17.55

| 3660 | 3650 | 3640 | 3630 | 3620 | 3. 1A-5 3610 |
|----------------|----------|------|------|------|--------------|
| | D3/71511 | | | | |
| BY CLASS SUBCL | | | | | |
| 75.0.0 19.8. | | | | | |

APPROVED O.G. FIG. Leave CY CLASS SUBCLASS ORCHESTAN \$30 326

FIG. 1A-6



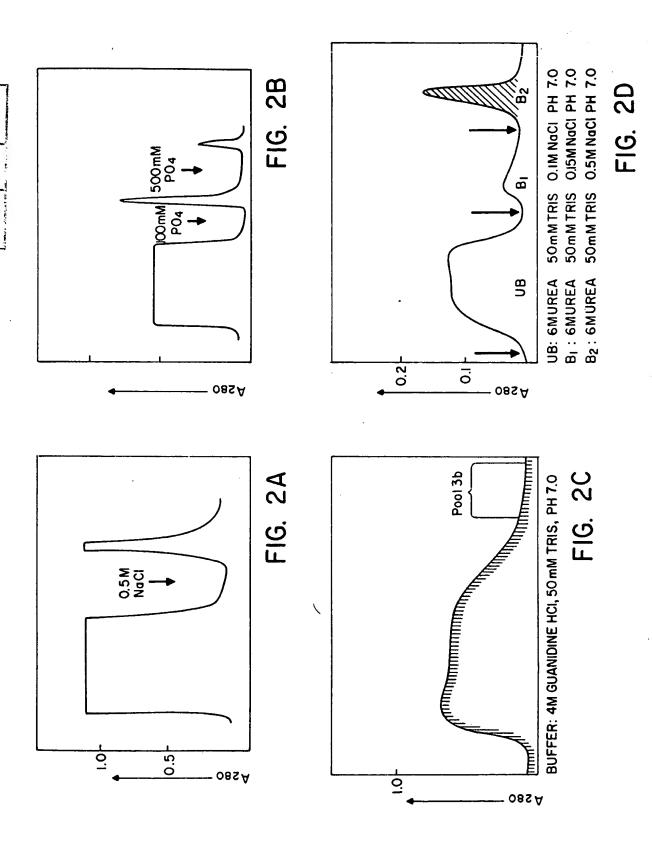
APPROYED O.G. FIGNORE
BY CL.3S SUBCLASS
GRAFTERLISSO 326

FIG. 1B

| 70 cccGTCG ** sccTGAAG | 140 CACCAACCA ******* CACCAACCA | 210 CGCCCACC ***** CGCCCACG 228 | 280 2CAGGAGA * 2AGAAACA 298 | |
|---|--|--|---|---|
| 50 GACTGGATCATCGCCCC *************** GACTGGATCATCGCGCC 68 | 130 TTCAACAGG *** *; ATGAAGGCCZ | 200 CCTGCTGCG1 ****** CCTGCTGTGC | 270 SAAGAACTAC **** *** SAAGAAATAC 288 | |
| 50 GGACGACTG * **** GCAGGACTG 68 | 120 GCGGATCAC7 ** AACTCCTAC2 | 190 200 3GTACCCAAGCCCTGCTG *** ********************************* | 260 CGTGGTGCT(*** **; CGTCATCCT(278 | |
| CONSENSUS PROBE 20 30 40 50 50 60 70 GATCCTAATGGGCTGTACGTGGACTTCCAGCGCGACGTGGGATCATCGCCCCGTCG ** *** *** *** ********************** | ACTICGACGCCTACTACTGCTCCGGAGCCTGCCAGTTCCCCTCTGCGGATCACTTCAACACGAGCCAACCAA | 180 CGGCAA(GGAAAC(198 | 220 230 240 250 260 270 280 GAGCTGTCCGCCATCAGCATGCTGTACCTGGACGAGAATTCCACCGTGGTGCTGAAGAACTACCAGGAGA **** ***** ** ** ** ** ** ** ** ** *** *** *** CAGCTCAATGCCATCTCCGTCCTTCGATGACAGCTCCAACGTCATCCTGAAGAATACAGAAACA 238 248 258 268 278 | |
| 30 CCAGCGCGA ** ** SCTTCCGAGA | 100 AGCCTGCCAG ** SGAGTGTGCC | 170 .ACATGAACCC *** **** :TCATCAACCC | 240 .ccrggacga :* ** ** .crrcgarga 258 | 310 TAACTGCA ** ** TAGCTCCT 328 |
| 20 ACGTGGACTT GTATGTCAC | 90 TTGCTCCGGA ** ** TTGTGAGGGC | 160 TGGTGAACA :**** ** TGGTCCACT | 230 CATGCTGTA ** ** CGTCCTCTA | 300 310 CTGCGCTGCCGCTAACT *** **** ** ** CTGTGCTGCCACTAGCT 318 328 |
| CONSENSUS PROBE GATCCTAATGGGCTGTA ** TGTAAGAAGCACGAGC1 0P4 | 80 GCCTACTACTG ******* GGCTACTACTG | 150 GTGCAGACCCTGGTGAACA ***** ** **** ** GTGCAGACGCTGGTCCACT 168 | 220 CCGCCATCAC ***** ATGCCATCTC 238 | 290 310 TGACCGTGGTGGGCTGCGCTGCGCTAACTGCA ** ** ** *** *** ** TGGTGGTCCGGGCCTGTGGCTGCCACTAGCTCCT 308 318 328 |
| CONSENSU GATCCTAA ** TGTAAGAA OP4 | ACTTCGAC ** ** GCTACGCC | CGCCGTGC **** CGCCATCG | SAGCTGTC *** CAGCTCAA | 2 TGACCGTG ** ** TGGTGGTC |

68613377

MZ621988



36

CLASS SUBCLASS

APPROVED O.G. FIG. no --



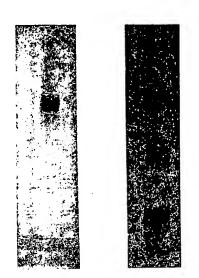




FIG. 5

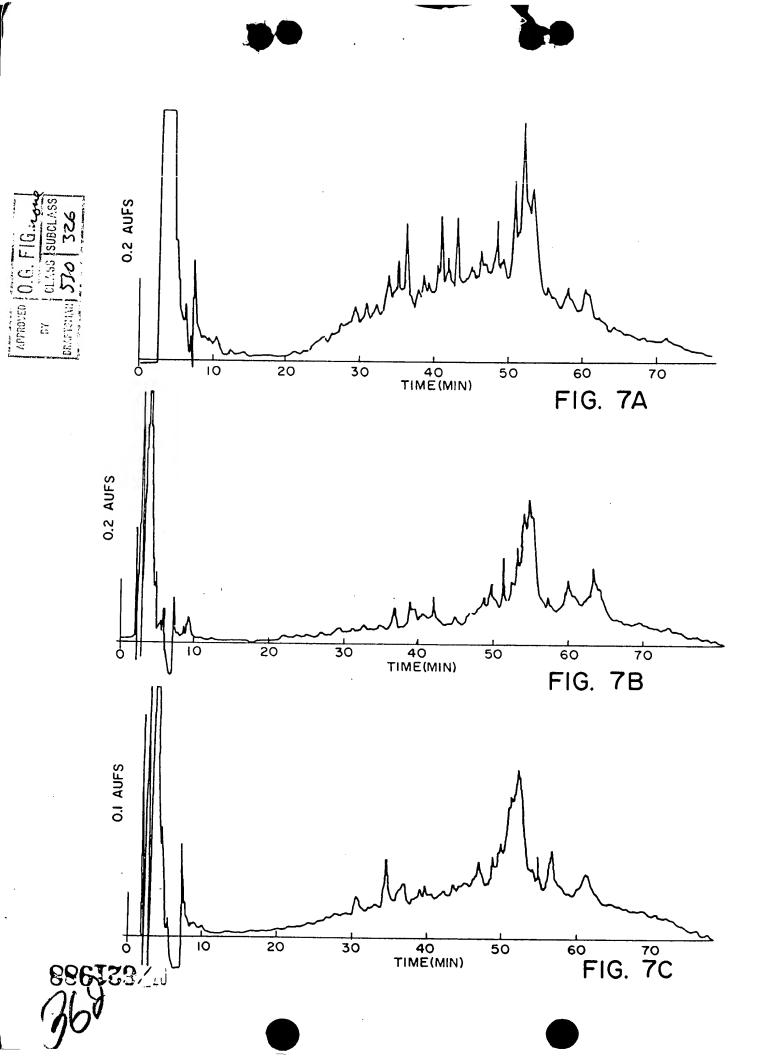
В

FIG.6 A FIG.6 B FIG.6 C FIG.6 D FIG.6 E

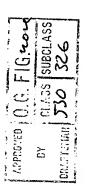
FIG. 15

| نت | | NON | -REDUCIBLE | 30K |
|------------|---------|---------|--------------------|-----|
| 400 | - Septi | | SUBUNIT SUBUNIT | |

986133/II







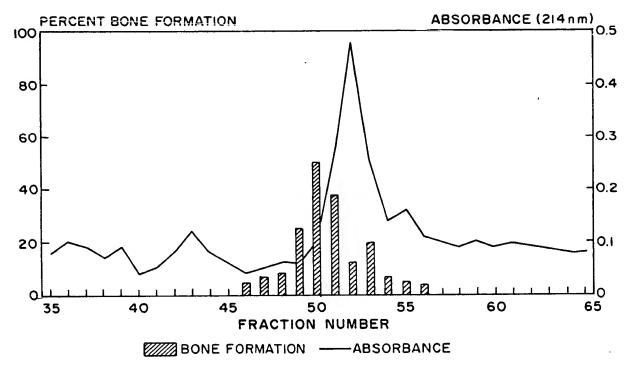


FIG. 8

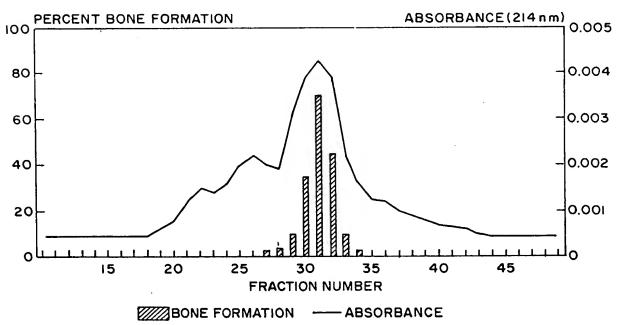


FIG. 9

M 388153 \(\)

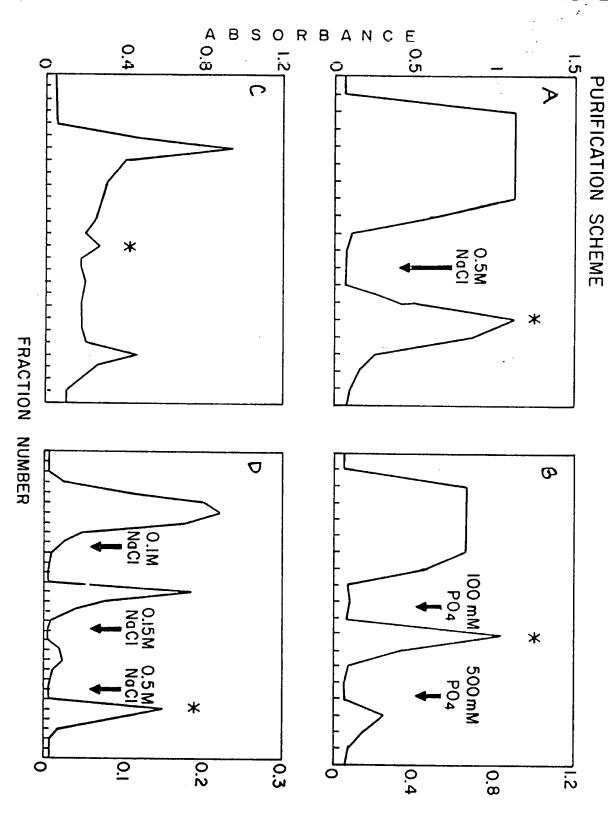




FIG. 10







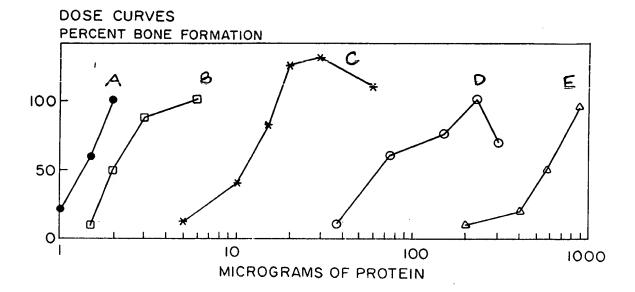


FIG. 11

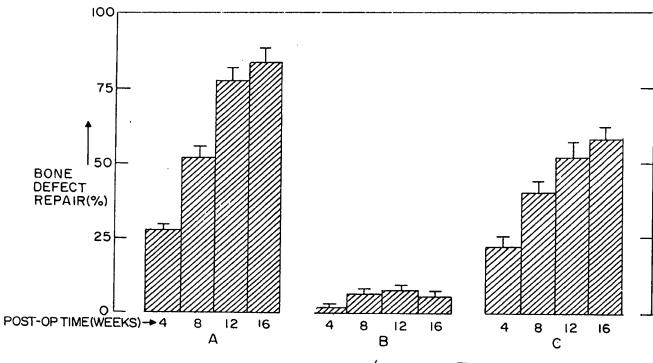


FIG. 12

APPROUND O.G. FIG. COL. ST. ST. CLASS SUBCLASS CONTINUED SEC.

FIG. 13

30 40 20 10 GATCCTAATGGGCTGTACGTGGACTTCCAGCGCGACGTGGGCTGGGACGA D P N G L Y V D F Q R D V G W D D 90 70 80 CTGGATCATCGCCCCGTCGACTTCGACGCCTACTACTGCTCCGGAGCCT WIIAPVDFDAYYCSGA 140 130 120 110 C Q F P S A D H F N S T N H A V V 190 . 180 170 CAGACCCTGGTGAACAACATGAACCCCGGCAAGGTACCCAAGCCCTGCTG Q T L V N N M N P G K V P K P C C 240 230 220 CGTGCCCACCGAGCTGTCCGCCATCAGCATGCTGTACCTGGACGAGAATT V P T E L S A I S M L Y L D E N 290 280 270 CCACCGTGGTGCTGAAGAACTACCAGGAGATGACCGTGGTGGGCTGCGGC S T V V L K N Y Q E M T V V G C G 310 TGCCGCTAACTGCAG

2012374

CR *

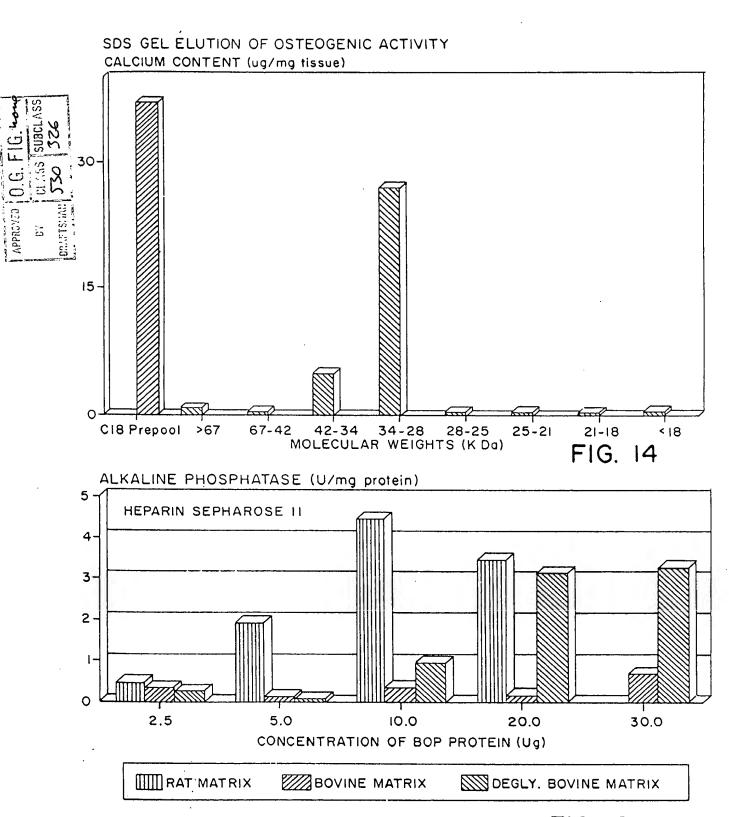
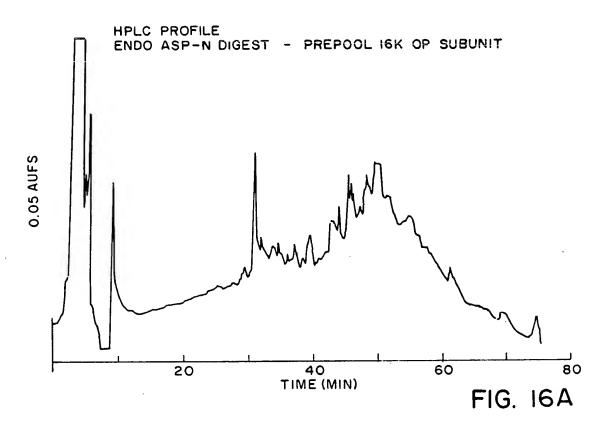


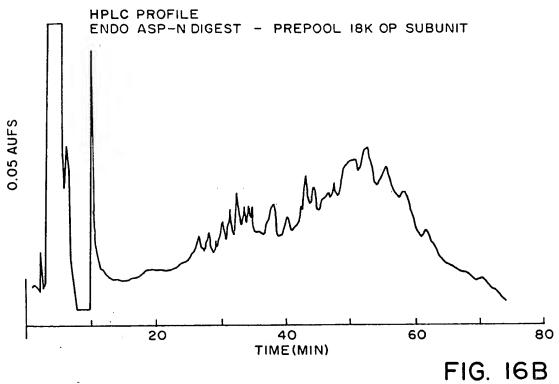
FIG. 19











8861S3\[\]

1/20



FIG. 17A

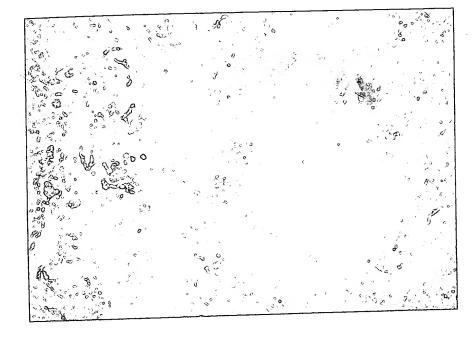


FIG. 17B

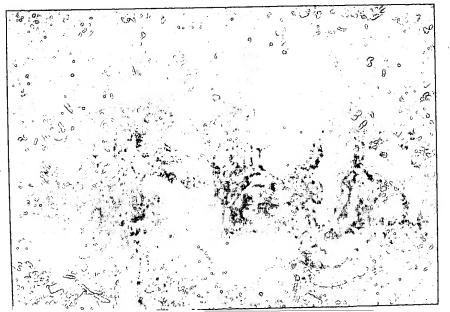


FIG. 17C

| | consensus | choices | | ပ . | k, r | k, r | ,Ι, | p,s,e,q | , , | Υ, τ | - | d,e,s | | k,r,s | | ص ص | v, l, i | p | | g'ə'p'u'b | d,e,n | 3 |), i | i,v | 9,5 | Ωı | e'd'b* | g'8 | Y, f | h,d,n,q,y* | ര |
|------|-----------|----------|------------|------|---------|----------|-----|----------|--------|------|-----|-------|-----|----------|----------|--------|-------------|--------------|----------|----------------|----------|-----|-------------|----------|----------|------------|--------|--------------|------------|-------------|--------------|
| | | | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | :: | •• | •• | •• | •• |
| | alpha | Inhil | | ပ | Ħ | ~ | > | K | ı | Z I | щ (| ß | দ | œ | | 曰 | 1 | ပ | 3 | 闰 | ĸ | 3 | н | > | × | Д | Д | ഗ | ĮΞι | н | ĬĽ, |
| | MIS | | | ပ | Ø | Ц | 24 | 曰 | H | S | > | Ω | Н | 24 | ¥ | 囝 | æ | ß | | | | | > | Ч | H | Д | 田 | H | × | ø | A |
| | •• | | | •• | •• | .: V: | •• | <u>급</u> | •• | •• | •• | •• | •• | ∺ | ö | •• | •• | •• | •• | •• | •• | •• | : > | •• | •• | •• | •• | •• | •• | ₹ | •• |
| | TGF- | beta | 7 | | | Ы | | Д | | | | | | × | | | | | | | | | Н | | | | | | | Z | |
| | | | _ | ပ | ပ | > | 24 | O. | H | X | H | Ω | ĮŢ, | 24 | × | Ω | Н | G | 3 | × | ı | 3 | Н | H | 臼 | д | × | IJ | × | H | Æ |
| | ta- | ibin | Q Q | ပ | ပ | 24 | ø | ø | Œ | Œ | н | Ω | Ēų | 24 | | | H | ບ | 3 | z | Д | 3 | H | Н | A | Д | H | ပ | × | × | _O |
| | bet | _ | a) | ပ | ပ | × | × | ø | দ | ഥ | > | ഗ | ഥ | × | | Ω | н | ဗ | 3 | Z | Ω | 3 | H | н | Æ | Д | യ | ပ | × | H | Æ |
| | က္က | _ | | | _ | | | | _ | | _ | _ | | _ | | _ | | | _ | | | _ | | | | • | | | 6 - | _ | _ |
| | :CBMP3 | (pov) | | O | Ø | 24 | 24 | × | H | X | > | Д | ᄣ | ď | | Д | Н | U | ` | O ₂ | 臼 | × | Н | _ | 01 | 14 | * | 01 | щ | | a; |
| | ິ | ; (q | •• | •• | ₩ •• | •• | •• | | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• |
| | CBMP2 | a) | | ບ | | | Н | | Н | × | ^ | Ω | ഥ | Ø | | Ω | ^ | ပ | 3 | Z | A | Z | Η | > | Ø | Д | д | ပ | × | H | ¥ |
| | 0P1 | | | ပ | × | × | H | Ħ | Н | × | > | ഗ | ĺΉ | 24 | | Ω | Н | ບ | 3 | 0 | 2 | 3 | H | Н | 4 | Д | H | _ප | \succ | > | A |
| | DPP (| | | ပ | ĸ | æ | H | ß | П | × | > | Ω | ഥ | ß | | Ω | > | ပ | 3 | Ω | Ω | 3 | : - | > | 4 | <u>,</u> | ı | ຶ | > | ם | Ą |
| | VG1 | | | ပ | × | × | 24 | H | Н | × | > | Ħ | ſτι | × | i | Ω | > | _ප | 3 | 0 | Z | 3 | > | — | A | Δ. | 0 | ري به | > | Σ | A |
| | Š | •• | ::/ | •• | • • • | • | • | •• | •• | •• | •• | •• | •• | •• | • | • | ••• | • | • | • | • | • | • | • | • | • | • | • | • | • | • • • |
| | • | S. | OP7 | - | | | | | | × | | | | | | • | • | _ | _ | | | | | • | | | | | • | | A |
| • | | COP5 | Ü | | | д | Z | ບ | П | X | > | Ω | ഥ | S | 1 | | > | G | 3 | : _ | Ω | 3 | : - | ı > | • « | ; <u>p</u> | , Δ | י פ | > | • 0 | × |
| | | | | ,0P2 | | Д | Z | Ö | Ч | Y | > | Ω | ഥ | S |) | | > | U | 3 | : C | Ω | 3 | : - | · > | • 🗸 | . Δ | , Δ | י ני | > | · C | × |
| | | Pl | OP3 | O | , | | | | | | | | | | | | | | | | | | | | | | | | | | × |
| | | COP1 COI | ັບ | | | Ģ | Ş | Ş | H | X | > | Q | Ţ | 0 | 2 | | > | · U | 3 | : C | | 3 | : ⊢ | · - | 1 4 | . σ | · > | . כ | 1 | . 0 | ⋖. |
| 8863 | [Z! | 3/ | 11 |] | | | | | | G | | | | - | , | v | | | | | | لسر | \ | | | | | | | | |

FIG. 18-1

| y,f,n | λ, f, n | υ | e,h,* | ð | e,a* | ບ | p,a,g,q | χ, | Q | l,m,i | p,a,s,t | d,e,s,g* | h,r,n, s* | ,l,f,p,sa | n,k | Ø | t,s,a | u | | | ч | | a,t,s | i,v,t | v,i,l | u'b | t, s,a,g | 1,1 | > | h,n r | | |
|-------|---------|----|----------|-----|------|----|---------|-----|----|-------|---------|----------|-----------|-----------|-----|----|-------|----|----|----|-----|----|-------|-------------|-------|----------|----------|-----|----------|-------|----|--|
| •• | •• | •• | •• | ••• | ••• | •• | •• | ••• | •• | ••• | :: | :: | :: | E:: | ••• | :: | :: | :: | :: | :: | ••• | :: | •• | :: | •• | •• | ••• | •• | •• | :: | | |
| H | × | ပ | H | ဗ | ပ | ပ | ບ | ч | Ħ | H | Д | д | Z | ц | ß | П | Д | > | പ | ပ | A | | Д | പ | H | പ | A | ø | പ | × | | |
| Z | Z | ပ | œ | ဗ | > | ပ | හ | 3 | പ | Ø | യ | Ω | × | | Z | Д | ~ | H | ပ | Z | H | | | > | > | ч | H | Ц | × | Σ | | |
| •• | •• | •• | :: :: | •• | ם | •• | •• | | ä | | •• | •• | •• | A: | •• | •• | •• | ij | •• | •• | H | •• | •• | Ë | •• | •• | ຮູ | •• | •• | •• | | |
| | | | ¥ | | Ø | | | | | 3 | | | | S | | | | Ø | | | H | | | 24 | | | ß | | | | | |
| Z | ĮΤ | ပ | Н | G | Д | ပ | Д | × | H | 3 | S | | П | J | Ω | | | Ø | | | Ы | | S | X | > | 1 | K | Ч | × | Z | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| Z | × | ပ | 田 | G | യ | ပ | Д | Ø | × | ч | Ą | ပ | > | പ | ပ | ß | Ø | ß | တ | ഥ | H | E | Ø | > | > | Z | ø | X | 24 | Σ | '' | |
| Z | × | ပ | 臼 | ပ | ы | ပ | Д | ß | H | Н | Ø | ပ | H | ß | ပ | ß | လ | ч | ß | ഥ | H | လ | H | > | Н | Z | H | X | 24 | Σ | 8 | |
| × | × | ပ | တ | ပ | A | ပ | œ | ഥ | Д | Σ | പ | × | လ | П | × | Ы | လ | Z | | | H | | A | H | Н | ŏ | လ | н | > | ~ | | |
| •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | 5 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ſΞŧ | × | ပ | H | U | ы | ပ | Д | ഥ | Д | ч | Ø | Ω | Ħ | 1 | Z | တ | H | Z | | | Ħ | | Ą | H | > | Ø | H | ч | > | Z | F | |
| ¥ | × | ပ | 臼 | ပ | 团 | ပ | ¥ | ഥ | Д | ч | Z | တ | × | Σ | Z | A | ۲ | z | | | H | | Ø | н | > | ø | H | ᆸ | > | H | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | × | ບ | H | ပ | × | ပ | д | ഥ | Д | 1 | ¥ | Ω | H | ഥ | Z | ß | H | Z | | | H | | A | > | > | ø | H | П | > | Z | | |
| Z | × | ပ | × | හ | 阳 | ပ | വ | × | Д | ы | H | Ŀ | H | П | Z | ပ | ß | Z | | | H | | A | Н | J | Ø | H | П | > | Ħ | | |
| •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | | |
| ىعا | ы | U | H | Ö | 田 | U | а | נצו | а | J | ď | Ω | Ξ | ے | z | ຜ | H | z | | | Ξ | | ₫: | > | > | α | | | <u> </u> | 7 | | |
| | | | | | | | | | | H | | | | | | | | | | | H | | | | | Ø | | | | | | |
| • | • | • | | | | | | | | • | | _ | ,, | | _ | - | • | | | | _ | | | | | _ | | | | | | |
| ഥ | × | ບ | ß | G | A | ပ | Ø | ഥ | Д | ß | A | Ω | H | Œ | Z | മ | H | Z | | | H | | Ø | > | > | Ø | H | 1 | > | Z | | |
| দ | × | ပ | മ | ບ | ¥ | ပ | Ø | ĮŢ. | Д | ß | A | Q | H | Œ | Z | മ | H | Z | | | H | | A | > | > | Ø | H | П | > | z | | |
| × | × | ပ | ß | G | ¥ | ပ | Ø | [F4 | Д | ß | ¥ | Ω | H | ഥ | Z | တ | H | Z | | | H | | Ø | > | > | Ø | H | H | > | Z | | |



APPROTED O.G. FIG. 2

| n,s * | - | ជ | | | p,s,a | a'6 | | k,q,t,s | > | p,a,s | * | a,p,s | ບ | | ,a, | p,s,a | , e, | q,e,d,k* | l,m | s,n e,d | a,s,p,t | • | s,a,p,t | v,m,i,l | l,v,i | • | • | ď,n | • | 761 | e,d,s,t |
|-------|------------|-----|----------|-----|-------|--------------|-----|----------|-------------|-------|-----|-------|------------|------------|-----|----------|------|----------|-----|---------|---------|-----|----------|---------|-------|-------------|------------|-------------|-----|-----------|---------|
| :: | •• | •• | •• | ••• | •• | •• | ••• | •• | •• | :: | ••• | :: | ••• | ••• | ••• | ••• | ••• | •• | ••• | •• | ••• | •• | ••• | ••• | ••• | •• | •• | •• | ••• | ••• | :: |
| ß | H | ч | | | Д | ပ | | | | Ø | Ø | д | ပ | ပ | Ø | A | ı | д | ပ | H | Σ | 24 | Д | П | H | > | ~ | H | H | လ | Ω |
| ~ | _ | ~ | | _ | _ | _ | _ | ~ | | _ | | _ | - \ | - \ | | _ | • . | _ | | _ | | | _ | _ | | | _ | | | | -4 |
| O. | ~ | 14 | O | ~ | ~ | H | A. | 14 | | д | | щ | O | U | > | щ | Н | æ | M | A | O | 24 | H | Н | Н | נט | H | ω | 퍼 | H | æ |
| H | Ä | •• | •• | •• | •• | 田 | •• | •• | •• | S | •• | •• | •• | •• | •• | <u>Б</u> | •• | 0 | •• | •• | •• | •• | H | •• | ij | •• | •• | > | •• | 8 | Ţ |
| H | H | | | | | Ħ | | | | S | | | | | | Ø | | Q | | | | | H | | Ч | | | \vdash | | × | H |
| Q | H | Z | | | Д | \mathbf{c} | V | ß | ¥ | V | • | Д | ບ | ပ | > | Д | Ø | A | Ы | 田 | Д | П | Д | Н | > | ⋈ | × | > | ပ | 2 | × |
| ~ | . . | . = | - | | Ъ | r n | _ | V | | | - | , o | . | | | • | | | | | | _ | | _ | _ | | r _ | _ | _ | ., | |
| | <u> </u> | П | ~ | | щ | 0 | - | 14 | | | ~ | נט | O | U | | щ | ר | 124 | _ | ß | - | 2 | נט | 2 | Н | > | 1 | | Ц | щ | × |
| 24 | ೮ | H | മ | | Д | ഥ | A | Z | ᆸ | | × | ß | ပ | ပ | > | Д | ₽ | × | ы | 24 | Д | Σ | ß | Σ | Ы | × | × | Ω | Ω | ဗ | Ø |
| A | > | ບ | > | > | Д | ບ | | | н | Д | Ŀ | Д | ပ | ပ | > | д | ഥ | × | Σ | ß | ß | 'n | ß | Н | П | ഥ | ഥ | Ω | 曰 | Z | × |
| •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | | | | • • | | | | | | | | | | |
| | | | | | | | | മ | | | | | | | | | | | • | | | | | | | • | | •• | ••• | ٠. | _ |
| | | | | | | | | U, | | | | | | | | | | | | | | | | | | | | | | 34 | Ω |
| ß | > | Z | | | ഗ | | | × | Н | д | × | Ø | ບ | ບ | > | д | H | 臼 | Ы | ß | A | H | യ | Σ | Н | × | Н | Ω | FI | Z | 曰 |
| œ | Н | z | | | д | Œĵ | | Ы | > | م | 8 | ⊿: | () | () | 4 | ۵. | L | \sim | | Z | ~ | _ | rΩ | _ | | 7 | ۲÷. | _ | _ | 70 | ro |
| • | | | | | • | | | • | | | _ | • | | | | | • | | _ | | - | • • | - | | | μ. | | | Ι | 0,1 | 01 |
| z | z | Z | | | Д | ט | | × | > | Д | 8 | Ø | ບ | ບ | > | م | Н | O | د : | Ω | ß | > | ď | Σ: | ح | ы | ح | z | 0 | \sim | 01 |
| | | | | | | | | | | | | | | | | | • | | • | | | | | | - | | | | | | |
| ß | н | F | | | Д | 团 | | O | Н | Д | П | Д | ပ | ບ | > | Д | H | × | Σ | ß | Д | н | ß | Σ | П | [Z-I | × | Ω | Z | Z | Ω |
| •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | • • • | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• |
| īΩ | | z | | | ß | | | | | | | | | | | - | | | | | | | | | . 7 | | . 7 | ·· | 6-1 | ··· | 田 |
| | | | | | S | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U | - | Z | | | U | | | 124 | | -4 | 14 | 7 | J | J | • | щ | ר | 픠 | Н | ß | ď | Т | נט | 2 | H | įΗ | H | ı | 'nП | Z | Ħ |
| Z | Σ | Z | | | Д | _ | | | | | | | | | | | | | | | | | | | | | | | | | 田 |
| Z | Σ | Z | | | Д | G | | × | > | Д | × | Д | U | ပ | > | Д | H | FJ | Н | S | ¥ | Н | S | Σ | H | × | J | Q | FJ | Z | 团 |
| Z | Σ | Z | | | Д | G | | × | > | Д | × | വ | U | ပ | > | Д | | F | П | ß | Ø | H | ß | Σ | П | \succ | П | Ω | Ξī | Z | Ħ |



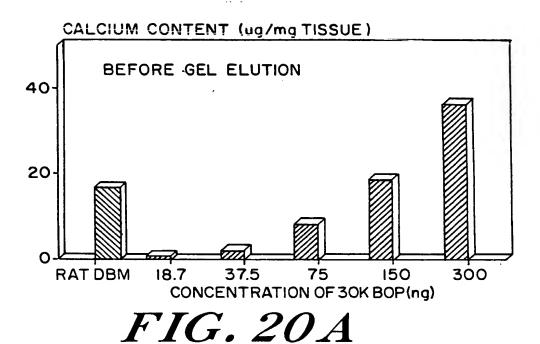
APPROVED O.G. FIG. 202

| n, k | V, 1 | v,i | 1 | k, r | n,d,k* | > | d'e'b'r | | n,d,e | E | v,i,t,a | > | e,d,r,k, | g,a,s,e | บ | d'b | ပ | r,h,s,a, |
|------|------|-------------|------------|----------|--------|---------------|---------|-----|-------|-----|---------------|-------------|-------------|----------|-----|----------|-----|----------|
| •• | •• | :: | :: | :: | ••• | ••• | :: | •• | •• | ••• | ••• | •• | •• | :: | •• | •• | •• | •• |
| 9 | ပ | X | လ | ഥ | × | × | 臼 | TVP | Z | П | J | H | ø | H | ပ | ¥ | ပ | Н |
| H | വ | A | H | H | > | | Д | | Z | Σ | > | Ø | Н | ы | ပ | ပ | ပ | × |
| •• | •• | : | •• | •• | •• | •• | •• | •• | •• | •• | : | •• | X: | •• | •• | •• | •• | •• |
| | | H | | | | | | | | | | | | | | | | |
| Ъ | × | > | 田 | ø | ᄓ | | ß | | Z | Σ | H | > | 24 | ß | ပ | × | ບ | യ |
| Z | Н | > | × | 24 | Ω | > | Д | | Z | X | Н | > | Œ | 田 | ပ | ပ | ပ | Ø |
| Z | н | н | × | × | Ω | H | Ø | | Z | Σ | н | > | 臼 | 臼 | ပ | G | ပ | ß |
| Z | > | > | ᆸ | × | > | X | а | | Z | Z | ۲ | > | 田 | Ω | ပ | H | ပ | 24 |
| •• | •• | •• | •• | •• | •• | •• | •• | •• | 妇 | •• | •• | •• | •• | •• | •• | •• | •• | •• |
| × | > | Λ | Ц | × | Z | × | 0 | t | Ω | Σ | > | > | 闰 | ບ | ບ | G | U | 8 |
| Z | > | H | ы | × | × | × | 24 | | Z | Ξ | > | ^ | 24 | Ą | ပ | · v | ပ | H |
| H | > | > | ы | × | Z | × | 0 | ł | দ্র | Σ | H | > | > | ບ | ပ | | ບ | 2 |
| Z | > | ^ | Ч | 24 | H | × | 田 | | Z | Σ | Ø | > | Ω | 臼 | ບ | r U | ບ | 2 |
| •• | •• | • • • | ••• | • • • | • • • | •• | • | • | • •• | •• | • | • | • | ••• | • | • | • | • •• |
| × | > | > | П | × | Z | × | 0 | ł | 汩 | Σ | > | > | [±] | ט | U | 5 | U | 24 |
| × | > | > | <u>, ,</u> | × | Z | H | 0 | ł | 臼 | Σ | > | > | (F) | છ | U | U | U | 2 |
| × | > | > | · ,_ | × | Z | × | 0 | ŧ | 臼 | Σ | > | > | [F. | <u>ပ</u> | U | <u>ප</u> | י ט | ~ |
| × | > | > | تر. | × | Z | \rightarrow | 0 | t | Þ | Σ | : > | · > | [± | ט ו | י כ | <u>ت</u> | י כ | 2 |
| × | > | > | ــر ، | × | Z | > | C | X | Œ | Σ | : > | > | Ţ | ט ו | י כ | <u>ر</u> | י כ | 2 |

FIG. 18-4

My 886153770





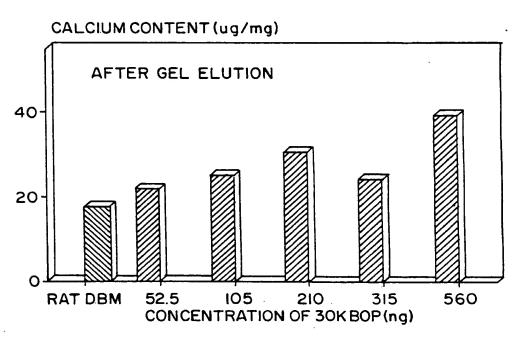
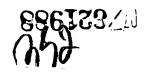


FIG. 20B







APPROVED O.G. FIG. COLASS
BY (1.55 SUBCLASS
DRAFTESTAN DO 326

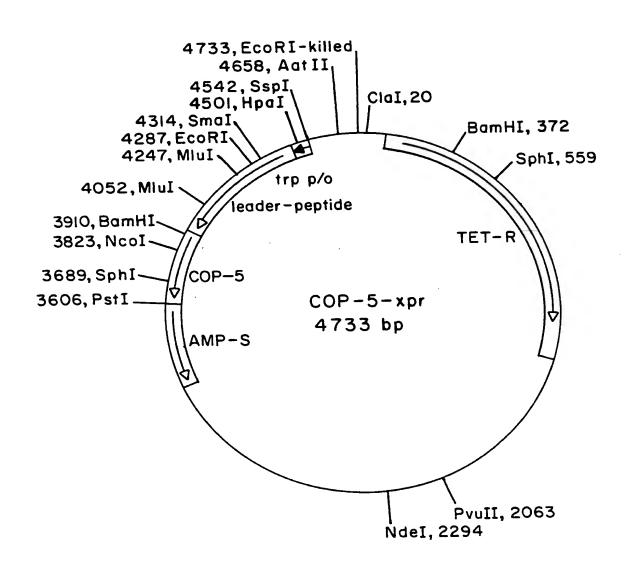


FIG. 21A





COP-5 fusion protein

- 10 20 30 40 50
 ATGAAAGCAATTTTCGTACTGAAAGGTTCACTGGACAGAGATCTGGACTC
 M K A I F V L K G S L D R D L D S
 Bqlii
- 60 70 80 90 100
 TCGTCTGGATCTGGACGTTCGTACCGACCACAAAGACCTGTCTGATCACC
 R L D L D V R T D H K D L S D H
- 110 120 130 140 150
 TGGTTCTGGTCGACCTGGCTCGTAACGACCTGGCTCGTATCGTTACTCCC
 L V L V D L A R N D L A R I V T P
 Sali Sma
- 160 170 180 190 200

 GGGTCTCGTTACGTTGCGGATCTGGAATTCATGGCTGACAACAAATTCAA
 G S R Y V A D L E F M A D N K F N
 ECORI
- 210 220 230 240 250
 CAAGGAACAGCAGAACGCGTTCTACGAGATCTTGCACCTGCCGAACCTGA
 K E Q Q N A F Y E I L H L P N L
 Mlui Bglii BspMi+
- 260 270 280 290 300
 ACGAAGAGCAGCGTAACGGCTTCATCCAAAGCTTGAAGGATGAGCCCTCT
 N E E Q R N G F I Q S L K D E P S
 HindIII
- 310 320 330 340 350
 CAGTCTGCGAATCTGCTAGCGGATGCCAAGAAACTGAACGATGCGCAGGC
 Q S A N L L A D A K K L N D A Q A
 NheI FspI
- 360 370 380 390 400
 ACCGAAATCGGATCAGGGGCAATTCATGGCTGACAACAAATTCAACAAGG
 PKSDQGQFMADNKFNK
- 410 420 430 440 450

 AACAGCAGAACGCGTTCTACGAGATCTTGCACCTGCCGAACCTGAACGAA
 E Q Q N A F Y E I L H L P N L N E
 MluI BglII BspMI+
- 460 470 480 490 500
 GAGCAGCGTAACGGCTTCATCCAAAGCTTGAAGGATGAGCCCTCTCAGTC
 EQRNGFIQSLKDEPSQS
 HindIII

2886139/10 FIG. 21B-1

APPROVED O.G. FIG. LOWER SUBCLASS SUBCLASS SUBCLASS

46) 886123/1

APPROVED O.G. FIG. Note BY CLASS SUBCLASS RAFTELIAR STO \$26

510 520 530 540 550
TGCGAATCTGCTAGCGGATGCCAAGAAACTGAACGATGCGCAGGCACCGA
A N L L A D A K K L N D A Q A P
NheI FspI

560 570 580 590 600
AGGATCCTAATGGGCTGTACGTCGACTTCAGCGACGTGGGCTGGGACGAC
K D P N G L Y V D F S D V G W D D
Bamhi Sali

610 620 630 640 650
TGGATTGTGGCCCCACCAGGCTACCAGGCCTTCTACTGCCATGGCGAATG
W I V A P P G Y Q A F Y C H G E C
Stul Ncol Bsml+

660 670 680 690 700
CCCTTTCCCGCTAGCGGATCACTTCAACAGCACCAACCACGCCGTGGTGC
PFPLADHFNSTNHAVV
NheI DraIII
Pf1MI

710 720 730 740 750
AGACCCTGGTGAACTCTGTCAACTCCAAGATCCCTAAGGCTTGCTGCGTG
Q T L V N S V N S K I P K A C C V
MstII

760 770 780 790 800
CCCACCGAGCTGTCCGCCATCAGCATGCTGTACCTGGACGAGAATGAGAA
P T E L S A I S M L Y L D E N E K
SphI

810 820 830 840 850
GGTGGTGCTGAAGAACTACCAGGAGATGGTAGTAGAGGGCTGCGCTGCC
V V L K N Y Q E M V V E G C G C
Pflmi

860 GCTAACTGCAG R * PstI

FIG. 21B-2

8861S3\[0

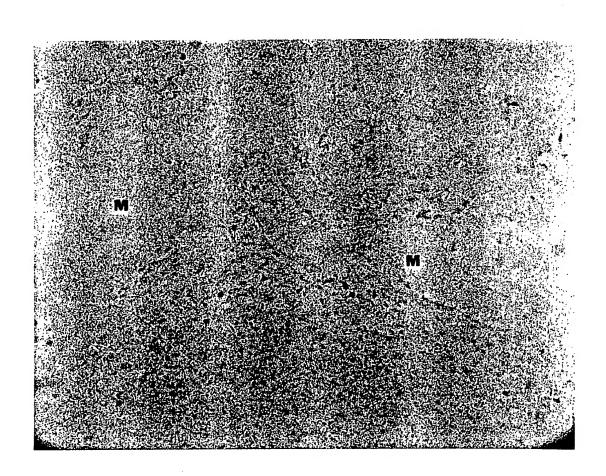


FIG. 22A





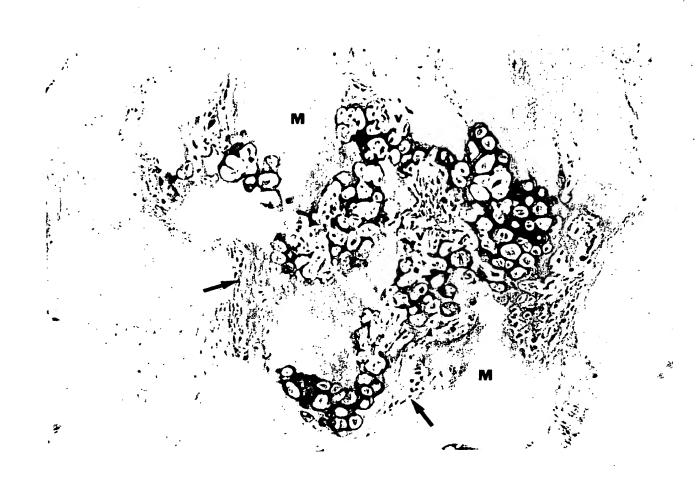


FIG. 22B

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

| ☐ BLACK BORDERS | |
|---|-----------------|
| | |
| IMAGE CUT OFF AT TOP, BOTTOM OR SIDES | |
| | |
| ☐ FADED TEXT OR DRAWING | |
| ☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING | |
| ☐ SKEWED/SLANTED IMAGES | |
| . C | |
| COLOR OR BLACK AND WHITE PHOTOGRAPH | HS |
| | |
| ☐ GRAY SCALE DOCUMENTS | |
| ☐ LINES OR MARKS ON ORIGINAL DOCUMENT | |
| LINES ON MARKING ON ORIGINAL DOCUMENT | |
| REFERENCE(S) OR EXHIBIT(S) SUBMITTED AF | RE POOR QUALITY |
| | |
| OTHER: | |

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.